

CLAIMS

1. A vehicle with a device for converting chemical energy into electrical and/or mechanical energy, in particular, a fuel cell unit and/or combustion device such as a diesel or gas engine, whereby at least one oxygen-containing source mixture is provided, comprising:

a separator for separating off at least one oxygen-enriched fluid from a fluid residue of the source mixture.

2. The vehicle according to claim 1, wherein the separator has at least one oxygen separator for separating oxygen from the source mixture.

3. The vehicle according to claim 1, wherein the oxygen separator is formed as an oxygen condensation unit for condensation of oxygen.

4. The vehicle according to claim 1, wherein the separator includes at least one heat exchanger for heat exchange with a cooling medium.

5. The vehicle according to claim 4, wherein in a flow direction of the cooling medium, before the at least one heat exchanger, at least one branch connection element for separating the cooling medium into at least two separate partial flows is arranged.

6. The vehicle according to claim 5, wherein on the branch connection element, a cooling medium bypass of the heat exchanger is disposed.

7. The vehicle according to claim 5, wherein the cooling medium generally comprises hydrogen.

8. The vehicle according to claim 1, wherein a fluid reservoir is provided for storing liquid hydrogen.

9. The vehicle according to claim 8, wherein the fluid reservoir has at least one insulating device enclosing the fluid residue for thermally insulating the fluid reservoir.

10. The vehicle according to claim 8, wherein the fluid reservoir has at least one insulating unit enclosing the oxygen-enriched fluid for thermally insulating the fluid reservoir.